

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) An internal ~~Internal~~-ventilation system of a rotating electric machine ~~that consists of, having,~~ within a housing, a fixed-mounted stator in the housing and a rotary-mounted rotor in the stator; the ventilation system ~~contains at least comprising:~~
one ventilator integrated with the rotor which is capable of creating a cooling air stream within the housing,
air intake axial orifices ~~(20)~~ arranged in the housing, and
cooling air discharge ports arranged in said housing in a ring with respect to the periphery of the ventilator and separated from each other by fins ~~(24)~~ stiffening the housing in the area of the radial ports ~~(22)~~,
wherein ~~characterized in that~~ the angle of inclination of the fins ~~(24)~~ in relation to the tangent perpendicular to the radial direction ~~(R)~~ is between 38° and 52°, ~~and~~
wherein ~~in that~~ the radial ports ~~(22)~~ have an axial oriented section, called the axial orifice, that axially affects only the axial oriented ring and belongs to a cylindrical portion, and
wherein ~~characterized in that~~ the surface of the axial orifices represents at least 40% of the surface of the cylindrical section.
2. (Currently Amended) The ventilation ~~Ventilation~~-system in accordance with claim 1, wherein ~~characterized in that~~ the angle of inclination of the stiffening fins ~~(24)~~ is 45°.
3. (Currently Amended) The ventilation ~~Ventilation~~-system in accordance with ~~one of claims 1 to 2,~~ claim 1, wherein the angular distance between the air discharge radial fins ~~(24)~~ is equal to $F \cdot 360^\circ / N$, where ~~in which~~ N is the number of notches present in the stator and F is a multiplier coefficient.
4. (Currently Amended) The ventilation ~~Ventilation~~-system in accordance with ~~the preceding claim,~~ claim 3, wherein the fins ~~(24)~~ are radially aligned with the grooves ~~(32)~~ of the stator.

5. (Currently Amended) The ventilation ~~Ventilation~~-system in accordance with claim 3, ~~characterized in that wherein~~ at least 70% of the fins (24)-are radially aligned with the grooves (32)-of the stator.
6. (Currently Amended) The ventilation ~~Ventilation~~-system in accordance with claim 3, ~~characterized in that wherein~~ the pitch of the fins (24)-is a multiple of the pitch of the grooves (32)-of the stator.
7. (Currently Amended) The ventilation ~~Ventilation~~-system in accordance with claim 1, ~~characterized in that wherein~~ the part of the cord length (~~L~~) of the blades (~~18~~) of a ventilator (~~16~~) overlapping the axial orifices (20)-of the housing must be less than or equal to one third.
8. (Currently Amended) An alternator for a vehicle having a ~~Said rotating electrical machine consisting of said ventilation system in accordance with one of claims 1 to 7, is an alternator for an automobile.~~